

(19)  Canadian
Intellectual Property
Office

An Agency of
Industry Canada

Office de la Propriété,
Intellectuelle
du Canada

Un organisme
d'Industrie Canada

(11) **CA 2 485 360**

(13) **A1**

(40) 27.11.2003

(43) 27.11.2003

(12)

(21) **2 485 360**

(51) Int. Cl. 7: **C07C 307/02, C07C 303/34**

(22) **15.05.2003**

(85) **05.11.2004**

(86) **PCT/EP03/005126**

(87) **WO03/097589**

(30) **102 21 910.9 DE 16.05.2002**

(71) **BASF AKTIENGESELLSCHAFT,
67056, LUDWIGSHAFEN, XX (DE).**

**GOETZ, NORBERT (DE).
PUHL, MICHAEL (DE).
REINHARD, ROBERT (DE).
HAMPRECHT, GERHARD (DE).
SAGASSER, INGO (DE).
SCHMIDT, THOMAS (DE).**

(72) **ZIERKE, THOMAS (DE).**

(74) **ROBIC**

(54) **PROCEDE POUR LA PRODUCTION D'HALOGENURES D'ACIDE SULFAMIQUE**
(54) **METHOD FOR THE PRODUCTION OF SULPHAMIC ACID HALOGENIDES**

(57)

The invention relates to a method for the production of sulphamic acid halogenides of primary or secondary amines, comprising the following steps: i) reaction of a primary or secondary amine A1 with at least equimolar amounts of SO₃ or an SO₃ source in the presence of at least equimolar amounts of a tertiary amine A2, respectively in relation to amine A1, and ii) reaction of the reaction mixture obtained in step i) with at least the stoichiometrically required amount of phosphorus halogenide. The invention also relates to a method for the production of sulphamic acid diamides, comprising the production of sulphamic acid halogenides by carrying out steps i) and ii) and by subsequently reacting the sulphamic acid halogenides thus obtained with ammonia. The invention further relates to the use of said method in the production of herbicidal active ingredients with a sulphodiamide structure. The invention also relates to novel sulphamic acid chlorides.



Office de la Propriété
Intellectuelle
du Canada

Un organisme
d'Industrie Canada

Canadian
Intellectual Property
Office

An agency of
Industry Canada

CA 2485360 A1 2003/11/27

(21) **2 485 360**

(12) **DEMANDE DE BREVET CANADIEN
CANADIAN PATENT APPLICATION**

(13) **A1**

(86) Date de dépôt PCT/PCT Filing Date: 2003/05/15
(87) Date publication PCT/PCT Publication Date: 2003/11/27
(85) Entrée phase nationale/National Entry: 2004/11/05
(86) N° demande PCT/PCT Application No.: EP 2003/005126
(87) N° publication PCT/PCT Publication No.: 2003/097589
(30) Priorité/Priority: 2002/05/16 (102 21 910.9) DE

(51) Cl.Int.⁷/Int.Cl.⁷ C07C 307/02, C07C 303/34

(71) Demandeur/Applicant:
BASF AKTIENGESELLSCHAFT, DE

(72) Inventeurs/Inventors:
HAMPRECHT, GERHARD, DE;
PUHL, MICHAEL, DE;
REINHARD, ROBERT, DE;
SAGASSER, INGO, DE;
SCHMIDT, THOMAS, DE;
GOETZ, NORBERT, DE;
ZIERKE, THOMAS, DE

(74) Agent: ROBIC

(54) Titre : PROCEDE POUR LA PRODUCTION D'HALOGENURES D'ACIDE SULFAMIQUE
(54) Title: METHOD FOR THE PRODUCTION OF SULPHAMIC ACID HALOGENIDES

(57) **Abrégé/Abstract:**

The invention relates to a method for the production of sulphamic acid halogenides of primary or secondary amines, comprising the following steps: i) reaction of a primary or secondary amine A1 with at least equimolar amounts of SO₃ or an SO₃ source in the presence of at least equimolar amounts of a tertiary amine A2, respectively in relation to amine A1, and ii) reaction of the reaction mixture obtained in step i) with at least the stoichiometrically required amount of phosphorus halogenide. The invention also relates to a method for the production of sulphamic acid diamides, comprising the production of sulphamic acid halogenides by carrying out steps i) and ii) and by subsequently reacting the sulphamic acid halogenides thus obtained with ammonia. The invention further relates to the use of said method in the production of herbicidal active ingredients with a sulphodiamide structure. The invention also relates to novel sulphamic acid chlorides.

Canada

<http://opic.gc.ca> · Ottawa-Hull K1A 0C9 · <http://cipo.gc.ca>

OPIC · CIPQ 191

